

## FEB 24 1982

U.S. DEPARTMENT OF LABOR WORKPLACE STANDARDS ADMINISTRATION BUREAU OF LABOR STANDARDS

DPM 2209

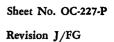
MDC CONTROL NO.\_\_\_\_\_

### MATERIAL SAFETY DATA SHEET

*Trademark of M&T Chemicals Inc		PIAL AND MA	ANIIFACTURER IDENTIFICATION		· · · · · · · · ·		
MANUFACTURER'S NAME  M&T Chemicals Inc.	<u>, 11   11   11   11   11   11   11   11</u>	NIAL AND W	ANUFACTURER IDENTIFICATION  EMERGENCY TELEPHONE NO. 201-499-2401-during office				
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIF	-	8:30 am - 4:30 pm					
P.O. Box 1104, Rahway, New Je	07065	201-499-2445 - after hours					
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS  M&T* Primer 227-P					
CHEMICAL FAMILY			FORMULA Proprietary epoxy type primer				
	SECTI	ON II: HAZAF	RDOUS INGREDIENTS*				
PAINTS, PRESERVATIVES/SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC COATINGS	%	ŢĻ <u>V</u> (UNITS)		
PIGMENTS			BASE METAL				
CATALYST			ALLOYS				
VEHICLE		·	METALLIC COATINGS				
SOLVENTS		· · · · · · ·	FILLER METAL PLUS COATING OR CORE FLUX		•		
ADDITIVES			OTHERS				
OTHERS		-					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES*							
					(UNITS)		
· · · · · · · · · · · · · · · · · · ·	<del></del>		<del></del> -				
· · · · · · · · · · · · · · · · · · ·							
	S	ECTION III: F	PHYSICAL DATA	. <u></u>			
BOILING POINT (OF)			SPECIFIC GRAVITY (H <sub>2</sub> 0 = 1)				
VAPOR PRESSURE (mm Hg.)			PERCENT VOLATILE BY VOLUME (%)				
VAPOR DENSITY (AIR = 1)			EVAPORATION RATE ( = 1)				
SOLUBILITY IN WATER							
APPEARANCE AND ODOR White liquid	l - ket	one odor					
SE	CTION IV	: FIRE AND E	EXPLOSION HAZARD DATA				
FLASH POINT (METHOD USED)  less than 80°F			FLAMMABLE LIMITS Let		Uel		
EXTINGUISHING MEDIA	<u> </u>						
CO <sub>2</sub> , dry chemical, f	oam			<del></del>			
ermy High <del>erman</del>							
UNUSUAL FIRE AND EXPLOSION HAZARDS							

						**		<sup>1</sup> V	i de la companya de La companya de la co	7.1
		<u></u>	SEC	CTION	I V: HEAL	TH HAZARD (	DATA	<del>-</del> ,	· · · · · · · · · · · · · · · · · · ·	
THRESHOLD LIMIT VALUE										
EFFECTS OF OVEREXPOSU  May be irritati		skir	n, and	i re	sp <b>ir</b> at	ory syste	m. Pr	obably slightly	y to	
moderately toxi	ic by ingesti	on.		-						
EMERGENCY AND FIRST AIR							· · · · · · · · · · · · · · · · · · ·	<del> </del>	_	
In case of conta	act, immediat	ely	flush	h ey	es wit	h plenty	of wat	er for at least	15 minutes.	<u> </u>
Call a physician	n. Flush ski	n wi	th wa	ater	. For	inhalati	on, re	move individua	l to a non-	
contaminated are	ea. For inge	stic	n;;i1	f co	nsciou	s, induce	vomit	ing. Call a pl	hysician.	
			SE	CTIÓ	N VI: RE	CTIVITY DA				
STABILITY	UNSTABLE		CONDI	ONDITIONS TO AVOID						
	STABLE	х								
INCOMPATIBILITY (MATERI	•	4 ~~4	+	1 0 2 2	able w	otoniola			_	
Strong oxidizing	ON PRODUCTS									
Decomposition_te	emperature 50	0 <b>°-</b> 6	50 F					es		
HAZARDOUS	MAY OCC	UR			CONDITI	ONS TO AVOI	D			
POLYMERIZATION	WILL NOT	WILL NOT OCCU		х						<del></del>
<del></del>			-							<del></del>
	·								·	
STEPS TO BE TAKEN IN CA	SE MATERIAL IS RE					R LEAK PROC	EDURES			.ఎస్
Transfer to cove						llow smok	ing or	open flames in	n area.	
Soak up spill wi	ith sand or e	arth	1 <b>.</b>							
						, <u> </u>		-	·	
WASTE DISPOSAL METHOD				•		- <u>-</u> -			<del></del>	
Industrial waste	system. Ob	serv	re al	l fe	deral,	state, a	ind loc	al regulations	regarding	
health and pollu	ution in chem	ica]	L d <b>i</b> sj	posa	1.					
						-	,			
		SEC	TION VI	III: SP	ECIAL PI	ROTECTION IN	IFORMATI	ON	<del></del>	
RESPIRATORY PROTECTION										
Wear approved re	<u>espirator whe</u> OCAL EXHAUST	n wo	orkin	gin	confi	ned areas	SPEC	CIAL		
	Use with ade		e vei	ntil	ation	- · · · · · · · · · · · · · · · · · · ·				
	ECHANICAL (GENEI	RAL)					ОТНЕ	<b>ER</b>		
PROTECTIVE GLOVES				_		EYE PROTE		<del></del>		
Rubbe OTHER PROTECTIVE EQUIP	er gloves					Chemic	al saf	ety goggles	·	
	:									
PRECAUTIONS TO BE TAKE	N IN HANDLING AN	חדפ מ	SEC	TION	IX: SPECI	AL PRECAUT	IONS	-3.4		
PRECAUTIONS TO BE TAKE prolonged breat	hing. Wash t	hor	oughl	y ai	fter h	act with and ling.	Launde	skin and cloth er contaminated	ing. Avoid clothing	
before re-use.								,		
OTHER PRECAUTIONS St	ore above fre	ezi	ng an	d be	elow 10	5 F. Co	ntains	volatile solve	nts. Keep a	way
from heat, spar	ks and open f	lam	es.	Keer	conte	iner clo	sed whe	n not in use.	D.O.T. red	<u>label</u>
for flammable 1 normal standard	rduras. reduli	cti	ce for	rans r he	andl <b>i</b> ng	jion. Stor g industr:	re and ial pai	use in accorda ints.	nce with	
PREPARED BY	1//				PATE					
Cluther a	MARAM				5 0	• -			BOE CO	ะ กวกวยว

BOE-C6-0203832





## M&T\* PRIMER 227-P

M&T Primer 227-P, an epoxy type primer, is formulated to provide extraordinary adhesion to subsequent coats of organosols or plastisols under a wide range of application schedules.

Initial bond strength of this primer exceeds the strength of the topcoat at drying schedules ranging from air-dry to baking temperatures of 400°F.

For optimum retention of adhesion, M&T Primer 227-P should be baked at metal temperatures of 365° to 400°F. The retention of adhesion is excellent within this baking range. The retention of adhesion in hot aqueous solution is deminished at bakes below 365°F.

M&T Primer 227-P shifts from white to buff color during baking.

#### **Metal Preparation**

The surface to be primed must be clean and dry, free from traces of oil, shop soil or other contaminants.

#### Material Specification

Viscosity:

15 to 17 seconds #2 Zahn cup at 75° to 80°F.

Thinner for viscosity

adjustment:

M&T Thinner 200-T.

Total solids:

23 to 25%

Coverage:

650 to 700 sq. ft/gal.

at 0.3 to 0.5 mil

Wt/gal.:

7.9 to 8.1 lbs.

Flash point:

Less than 80°F

#### Application Procedure

M&T Primer 227-P, which is shipped at a viscosity range of 15 to 17 seconds #2 Zahn cup, is normally

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applied full-bodied without further reduction. At this viscosity, a dried film thickness of 0.3 to 0.5 mils is obtainable. Films heavier than 0.5 mils are to be avoided. M&T Thinner 200-T should be used to maintain the primer at its original viscosity.

On very large articles, it is sometimes necessary to reduce M&T Primer 227-P with M&T Thinner 200-T to maintain primer thickness at less than 0.5 mils. The amount of M&T Thinner 200-T normally will not exceed one volume of thinner to two volumes of primer.

#### Spray Application

M&T Primer 227-P should be thinned in the ratio of three volumes of Primer 227-P to one volume of M&T Thinner 200-T. A wet, non-hiding film should be sprayed so as to deposit a total dry thickness of 0.3 to 0.5 mils.

#### Drying Schedules

Excellent initial adhesion is obtained using drying schedules ranging from air-dry to bakes of 30 minutes at 400°F.

If plastisol-coated articles such as plating racks and tanks are to be subjected to hot aqueous solutions, a baking cycle of 20 minutes at 365° to 400°F is recommended to maintain retention of adhesion in service. For less severe conditions, any of the following baking schedules may be employed:

- 1 minute at 425° to 450°F
- 5 minutes at 375° to 400°F
- 15 minutes at 365° to 375°F

(over)

# **M&T CHEMICALS INC.**

UBSIDIARY OF AMERICAN CAN COMPANY

GENERAL OFFICES: RAHWAY, NEW JERSEY 07065 Copyright by M&T Chemicals Inc.—1969 3379 Peachtree Road, N.E., Atlanta, Ga. 30326 - 6121 N. Elston Avenue, Chicago, III. 60646 - 20525 Center Ridge Road, Cleveland, Ohio 44116 - 530 Exchange Bank & Trust Tower, Exchange Park, Dallas, Texas 75235 - 20820 Greenfield Road, Detroit, Mich. 48237 - 415 E. 151st Street, East Chicago, Indiana 46312 - 631 Chestnut Street, S.W., Grand Rapids, Mich. 49502 - Philadelphia area: 100 Presidential Boulevard, N. Bala-Cynwyd, Pa. 19004 - 7343 Paramount Boulevard, Pico Rivera, Calif. 90660 - St. Louis area: 470 N. Kirkwood Road, United Savings Bldg., Kirkwood, Mo. 63122 - M&T Products of Canada, Ltd., Box 211, Station C, Hamilton, Ontario, Canada.

#### PRECAUTIONARY INFORMATION

Caution: This coating material should be stored and used in accordance with normal standards of good practice for handling industrial paints.

Storage: Contains volatile solvents. Keep away from heat, sparks and open flames. Store at temperatures above freezing and below 105°F. Keep containers closed when not in use.

Use: Maintain adequate ventilation in working area. Wear approved respirators and protective clothing when working in confined areas. Avoid repeated breathing of concentrated vapors. Prolonged contact of liquid material with the skin may be irritating; wash exposed surface thoroughly with soap and water. In case of eye contact, flush out the eyes with water for 15 minutes and consult a physician.

#### For Industrial Use Only

M&T Chemicals Inc. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. M&T Chemicals Inc. shall be in no way responsible for the proper use and service of the product. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

# M&T Chemicals Inc.





GENERAL OFFICES, RAHWAY, NEW JERSEY 07065

March 8, 1972

Mr. A. W. Wildanger Douglas Aircraft Company 3855 Lakewood Boulevard Long Beach, California 90801

Subject: M&T\* Primer 227-P

Unichrome\* Coating 218-X

M&T\* Thinner 200T

Dear Mr. Wildanger:

Please excuse any inconvenience caused by our delay in responding to your request for information on the above-mentioned products.

We have completed and attached Material Safety Data Sheets to satisfy your request. Out Technical Data Sheets for Primer 227-P and Unichrome Coating 218-X are also attached.

If any additional information is required, please do not hesitate to contact me.

Very truly yours,

M&T CHEMICALS INC.

Arthur A. Kornhauser Labeling Coordinator

AAK/jw

Att: Material Safety Data Sheets, TDS # 0C-227-P (J/FG), TDS # 0C-218-X (F/GA).

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